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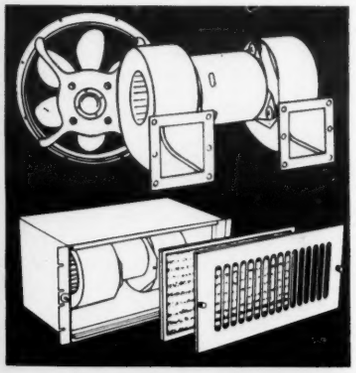

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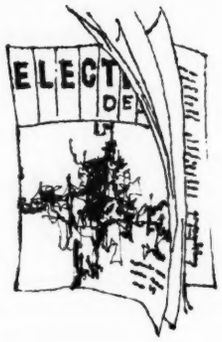

*January 4 through June 21, 1963*

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**Communications, Methods and Equipment**
**Components (See Microwaves, Semiconductors)**
**Computers, Data Processing, Auxiliary Devices**
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**Packaging Techniques, Production Processes and Equipment**
**Power Sources**
**Radio Frequency Interference**
**Reliability**
**Semiconductors, Solid-State Devices**

**Departments are identified by the following keys:**

| | | | | | |
|---|---|---|---|---|---|
| **ART** | Article | **EDN** | ELECTRONIC DESIGN News | **PF** | Product Feature |
| **DD** | Design Decision | **GA** | German Abstract | **PT** | Practical Theorist |
| **DYF** | Designing Your Future | **IFD** | Idea for Design | **PT** | Russian Translation |
| **ED** | Engineering Data | | | **SR** | Staff Report |

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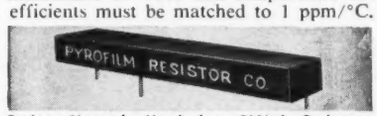


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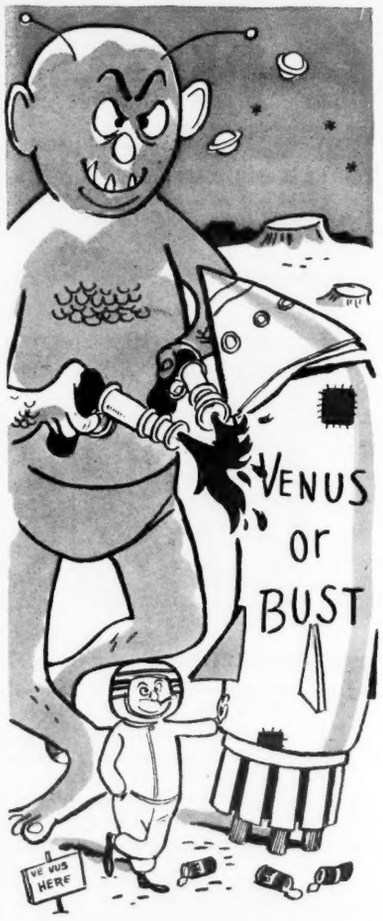


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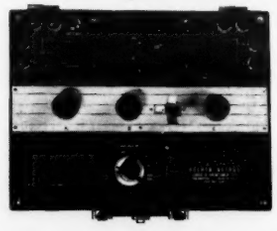
For rapid testing of low-resistance wires, rods, carbon brushes, windings and other electrical conductors. Range, 0.0001 to 11.00 ohms. Limit of error, ±1% of reading. Completely self-contained, with batteries and galvanometer. Metal case with handle, 7" x 6" x 5"; Weight, 5½ lb.



**4287 PRECISION D-C KELVIN BRIDGE**

For measurement of low-resistance . . . wires, rods, windings, resistors, etc. . . . with laboratory accuracy. Range, 0.0001 ohm to 110.100 ohms. Limit of error, ±0.05% of reading or better. Completely self-contained, with batteries and light-beam galvanometer. Metal case with handle and slip-hinged removable lid, 14¼" x 11½" x 7½" overall; Weight, 23½ lb.

For additional information contact your nearest L&N office or write for literature to Leeds & Northrup Company, 4908 Stenton Avenue, Philadelphia 44, Pa.

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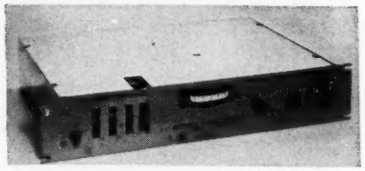
ON READER-SERVICE CARD CIRCLE 63

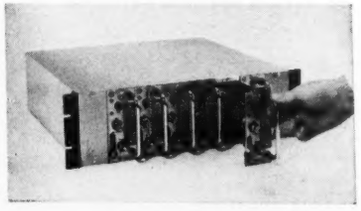
## Voltage and Balance Panel



VB-300 combines three precision monitoring instruments in 3½" of rack space, at less than their usual cost. Digital readout voltmeter provides measurement and setting of bridge excitation voltage to any value between 1 and 20. Bridge output meter permits measurement of static strains in terms of bridge output voltage to any value between 0 and ±100 mv. Null indicator allows bridge balancing within ±10 μv of zero.

ON READER-SERVICE CARD CIRCLE 876

## Transducer Signal Conditioning



Two new transducer and strain gage signal conditioning units feature radically different packaging concept at low cost per channel. Both the PS-290 Power Supply and PB-290 Power and Balance Unit incorporate plug-in card circuits for up to eight channels in a 19" rack, 5¼" high. Bridge completion balancing, and calibration resistors are easily accessible from the front. Output ripple is less than 500 microvolts peak-to-peak, or 200 microvolts RMS. Line regulation is less than 0.02%. Isolation is less than 0.01 microamps of 60 cycle current. Output impedance is less than 0.05 ohm.

**MICRODOT INC.**

220 Pasadena Avenue
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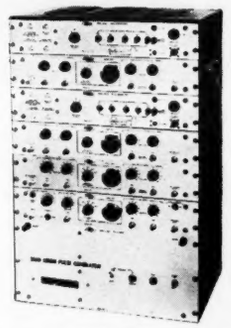
## PULSE POINTERS—

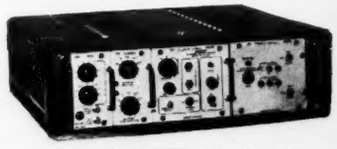
### Double Pulse Generator Recommended For Semi-Automatic Checkout Systems



Model 2140A Precision Double Pulse Generator

**Fast rise time, calibrated controls, separate or mixed signals**—Pulse simulation and control problems are easily resolved over a broad range by the multiple capabilities of SERVOPULSE™ Model 2140A Precision Double Pulse Generator. Reliable output parameters allow immediate use of the equipment without calibration and monitoring instruments. Model 2140A offers wide-range adaptability to special purpose applications through the use of standard pulse and digital circuit modules.

### Compact, Medium-Power Pulse Generator Features Modular Adaptability



Model 3350A Pulse Generator

**Fast rise time pulses are fully controllable in a variety of parameters**—Model 3350A Pulse Generator offers broad performance range in a unit designed for console mounting. Uses include pulse circuit design and testing of RADAR, navigational systems, digital computers, and control systems. It may be operated from the internal oscillator, slaved to an external trigger, or used single shot by pushbutton for transient testing. SERVOPULSE™ Model 3350A has 2 mc-2 cps rep rate and 10 nanosecond rise time.

For complete details, write:

*SERVOPULSE™ PRODUCTS*
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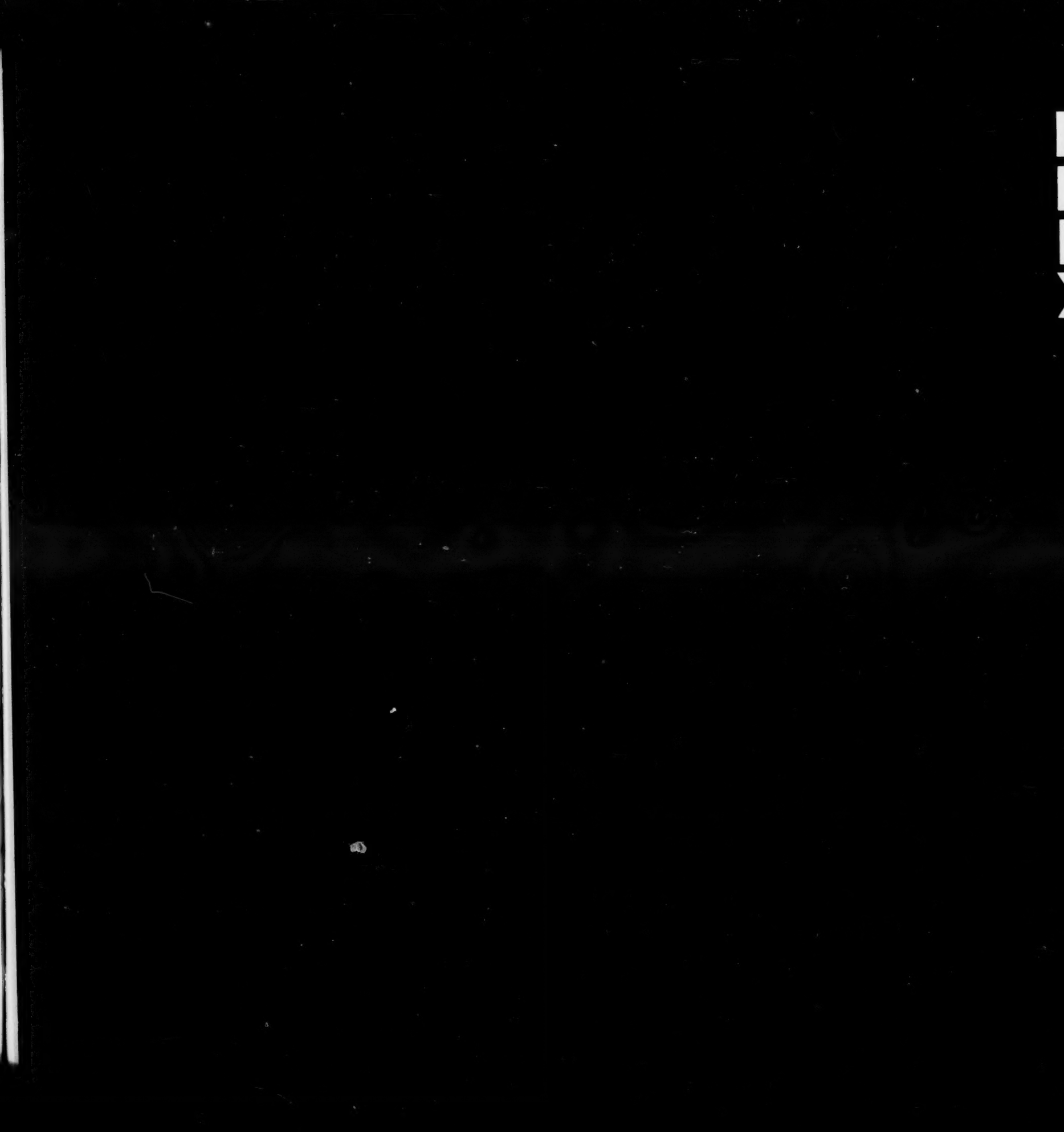
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